

WHAT IS CLAIMED IS:

1. A home network system interoperable with a wireless terminal of at least one user registered therein, comprising:

5           a terminal server for detecting a position of said wireless terminal and transmitting and receiving voice messages, text messages or multimedia data to/from said wireless terminal; and

10           a home server connected with said terminal server over the Internet, said home server sending, to said terminal server, alarm data regarding a dangerous situation in a home where a home network is constructed, receiving information regarding the position of said wireless terminal from said terminal server and displaying the received position  
15           information.

2. The home network system as set forth in claim 1, wherein said terminal server includes:

20           a wireless communication module for transmitting and receiving data to/from said wireless terminal of said registered user;

25           a position information output unit for reading and outputting the position information of said wireless terminal contained in said data transmitted and received to/from said wireless terminal;

a wired communication module for transmitting and receiving data to/from said home server over said Internet; and

a controller for controlling a data flow such that said position information of said wireless terminal is sent to said home server in response to a request therefrom and said alarm data sent from said home server is transferred to said wireless terminal.

3. The home network system as set forth in claim 1, wherein said home server includes:

a communication module for transmitting and receiving data to/from said terminal server over said Internet;

a network interface for transmitting and receiving data to/from a plurality of home appliances connected to said home network;

a microcomputer for processing data for state monitoring or operation control of said home appliances through said network interface; and

input means for setting and inputting information of said user registered in said home network system.

4. The home network system as set forth in claim 3, wherein said home server further includes display means for displaying state information of said home appliances connected

to said home network or said data transmitted and received to/from said terminal server under control of said microcomputer.

5           5. The home network system as set forth in claim 4, wherein said display means is a touch screen integrally formed with said input means.

10           6. The home network system as set forth in claim 4, wherein said display means is detachably mounted on a body of said home server.

15           7. The home network system as set forth in claim 3, wherein said home server further includes an alarm sensor for sensing a fire or gas leak through an atmosphere in the home and transferring the sensed result to said microcomputer so that alarm data regarding the fire or gas leak can be generated by said microcomputer.

20           8. The home network system as set forth in claim 3, wherein said home server further includes an infrared sensor for sensing intrusion of an outsider into the home through infrared rays emitted from an object moving in the home and transferring the sensed result to said microcomputer so that  
25           alarm data regarding the outsider intrusion can be generated by

said microcomputer.

9. The home network system as set forth in claim 3,  
further comprising display means connected to said home server  
5 over said home network, said display means displaying state  
information of said home appliances or said data transmitted  
and received to/from said terminal server.

10. The home network system as set forth in claim 9,  
10 wherein said display means includes:

a second network interface for transmitting and  
receiving data to/from said home server over said home  
network;

a display drive microcomputer for processing an image  
15 signal such that said data transmitted and received through  
said second network interface is displayed; and

a display for displaying said image signal processed by  
said display drive microcomputer.

20 11. The home network system as set forth in claim 3,  
further comprising alarm means connected to said home server  
over said home network, said alarm means sensing a dangerous  
situation in the home through an atmosphere or infrared rays in  
the home, generating alarm data based on the sensed dangerous  
25 situation and sending the generated alarm data to said home

server.

12. The home network system as set forth in claim 11,  
wherein said alarm means includes:

5           a second network interface for transmitting and  
receiving data to/from said home server over said home  
network;

          an alarm sensor for sensing a fire or gas leak through  
the atmosphere in the home;

10           an infrared sensor for sensing intrusion of an outsider  
into the home through the infrared rays in the home, said  
infrared rays being emitted from an object moving in the home;  
and

          an alarm unit microcomputer for generating alarm data  
15 based on a sensed result from said alarm sensor or infrared  
sensor and sending the generated alarm data to said home server  
through said second network interface.

13. The home network system as set forth in claim 4,  
20 further comprising alarm means connected to said home server  
over said home network, said alarm means sensing a dangerous  
situation in the home through an atmosphere or infrared rays in  
the home, generating alarm data based on the sensed dangerous  
situation and sending the generated alarm data to said home  
25 server.

14. The home network system as set forth in claim 13,  
wherein said alarm means includes:

a second network interface for transmitting and  
receiving data to/from said home server over said home  
5 network;

an alarm sensor for sensing a fire or gas leak through  
the atmosphere in the home;

an infrared sensor for sensing intrusion of an outsider  
into the home through the infrared rays in the home, said  
10 infrared rays being emitted from an object moving in the home;  
and

an alarm unit microcomputer for generating alarm data  
based on a sensed result from said alarm sensor or infrared  
sensor and sending the generated alarm data to said home server  
15 through said second network interface.